

AMENDMENTS

In the claims:

Please cancel claims 1-6, 8, and 10-45. Please cancel claim 3. Please add new claims 46-65. Accordingly, claims 46-65 are currently pending.

To satisfy the requirements of 37 CFR 1.121(c) and 37 CFR 1.52(a), all pending claims, whether or not amended, are presented below. A marked-up version of these claims showing the changes made to the claims follows the Remarks section of this Response.

Pending Claims 46-65:

- F1
- 1 ~~46.~~ (New) A method of forming a classifier, the method comprising:
- providing a first time period,
 - providing a distinct second time period wherein the distinct second time period is consecutive to the first time period, shorter than the first time period, and more recent than the first time period,
 - forming a first signature from data collected during a period based on the first time period,
 - forming a distinct second signature from data collected during a period based on the distinct second time period,
 - training a first neural network based on the first signature and the distinct second signature.
- 2 ~~47.~~ (New) A method according to claim ~~46~~, further comprising providing an
- 3 architecture for the first neural network.
- ~~48.~~ (New) A method according to claim ~~46~~, further comprising evaluating the
- 4 performance of the neural network.
- ~~49.~~ (New) A method according to claim ~~46~~, further comprising retraining the
- 5 first neural network.
- ~~50.~~ (New) A method according to claim ~~46~~, further comprising:
- providing a performance threshold, and,
 - retraining the first neural network based on a comparison of the performance threshold and a performance evaluation of the neural network.
- 6 ~~51.~~ (New) A method according to claim ~~46~~, further comprising updating the first
- signature based on a weighted average of the distinct second signature.
- 7 ~~52.~~ (New) A method according to claim ~~46~~, further comprising,
- training a distinct second neural network based on an updated version of the first signature.

8
~~53.~~ (New) A method according to claim ~~52~~⁷, further comprising
evaluating the distinct second neural network, and

9
based on the evaluation, utilizing the distinct second neural network as a
replacement for the first neural network if the distinct neural

~~54.~~ (New) A method according to claim ~~45~~¹, wherein at least one of forming a
first signature and forming a distinct second signature include collecting call
detail records (CDRs).

10
~~55.~~ (New) A method according to claim ~~46~~¹, wherein at least one of forming a
first signature and forming a distinct second signature include specifying
parameters upon which at least one of the first signature and the distinct
second signature are to be formed.

11
~~56.~~ (New) A method according to claim ~~46~~¹, wherein at least one of the first
signature and the distinct second signature is based on at least one of
percentage of calls made and position of a portion in the time period during
which the data is received.

14
~~57.~~ (New) A method of classifying data, the method comprising:

training a first neural network based on the first signature and the distinct
second signature, the first signature based on data from a first time
period, the distinct second signature based on data from a distinct
second time period that is consecutive to the first time period,
shorter than the first time period, and more recent than the first time
period,

forming a recent signature based on data collected during a recent time
period of the same duration as the distinct second time period, and,

presenting the recent signature to the first neural network.

15
~~58.~~ (New) A method according to claim ~~57~~¹⁴, further comprising retraining the
first neural network.

16
~~59.~~ (New) A method according to claim ~~57~~¹⁴, further comprising:

providing a performance threshold, and,

retraining the first neural network based on a comparison of the performance threshold and a performance evaluation of the neural network.

¹⁷
~~60.~~ (New) A method according to claim ¹⁴~~57~~, further comprising updating the first signature based on at least one of a weighted average of the distinct second signature and a weighted average of the recent signature.

¹²
~~61.~~ (New) A method according to claim ¹~~46~~, further comprising,
F1 training a distinct second neural network based on an updated version of the first signature.

¹³
~~62.~~ (New) A method according to claim ¹²~~61~~, further comprising
evaluating the distinct second neural network, and

based on the evaluation, utilizing the distinct second neural network as a replacement for the first neural network.

¹⁸
~~63.~~ (New) A method according to claim ¹⁴~~57~~, wherein at least one of the a first signature and the distinct second signature are formed based on call detail records (CDRs).

¹⁹
~~64.~~ (New) A method according to claim ¹⁴~~57~~, further including specifying parameters upon which at least one of the first signature and the distinct second signature are to be formed.

²⁰
~~65.~~ (New) A method according to claim ¹⁴~~57~~, wherein at least one of the a first signature and the distinct second signature are formed based on at least one of percentage of calls made and position of a portion in the time period during which the data is received.